

filtering the received signal to create a filtered signal ;

correlating the filtered signal with a sequence signal to generate a correlated
signal;

analyzing the points of correlation in the correlated signal to determine if the
5 received signal is a request to resume communication.

26. The method of Claim 25, wherein analyzing comprises comparing the correlated
signal with a threshold signal to determine if the correlated signal is a request for
a communication.

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27. The method of Claim 25, further including the step of initiation of a warm start
operation if the analyzing reveals that the points of correlation match designated
points of correlation.

15 28. The method of Claim 25, wherein a finite impulse response filter is used to
perform correlating.

29. The method of Claim 25, wherein the received signal is a sequence signal.

20 30. A method for periodically modifying communication device settings to account
for changes in a communication channel comprising;

sending a sequence signal from a first location to a second location over the communication channel;

receiving the sequence signal at the second location;

filtering the sequence signal at the second location;

5 correlating the sequence signal at the second location with a duplicate of the sequence signal to obtain a correlated signal; and

processing the correlated signal to determine changes in the communication channel.

10 31. The method of Claim 30, further including modifying the communication device settings, based on the processing, to account for changes in the communication channel.

32. The method of Claim 30, wherein the sequence signal comprises an M-sequence
15 type sequence signal.

33. The method of Claim 30, wherein the communication channel comprises one or more twisted pair conductors.

20 34. The method of Claim 30, further including sending a sequence signal from the second location to the first location;

receiving the sequence signal at the first location;

filtering the sequence signal at the first location;

correlating the sequence signal at the first location with a duplicate of the
sequence signal to obtain a correlated signal; and

5 processing the correlated signal to determine changes in the communication
channel.

35. A method for updating communication device settings to aid in executing a warm
start operation, the method comprising:

10 receiving a sequence signal;

correlating the sequence signal;

processing the correlated sequence signal to determine current channel
characteristics;

adjusting the communication device settings based on the processes.

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36. The method of Claim 35, further including comparing the current channel
characteristics to channel characteristics at a time prior to the processing; and

modifying the communication settings if the comparing determines the current
channel characteristics are different than the channel characteristics at a time prior to the
20 processing.